

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Restriction of Jan. 5, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended) A three-piece golf ball comprising:

a core comprising a center and a ~~thread windings~~ layer, ~~wherein said center has a compression in the range of about 60 PGA to 80 PGA and a weight in the range of about 27.5 grams to 28.5 grams, and wherein said thread windings layer has an unstressed thread dimension of about 0.020 inches to 0.028 inches by 1/16 of an inch, and has a 500% modulus between 220 to 280 p.s.i.;~~

a cover having a Shore D hardness in the range of about 63 Shore D to about 69 Shore D; and

a plurality of dimples arranged on the outer surface, with a first pattern of dimples associated with each pentagon, a second pattern of dimples associated with each square, and a third pattern of dimples associated with each triangle.

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Restriction of Jan. 5, 2004

Claim 2 (currently amended) The golf ball of claim 1 wherein the center has a diameter in the range of about 1.34 to about 1.37 inches ~~1.340 to about 1.370 inches~~.

Claim 3 (original) The golf ball of claim 1 wherein the core has a weight in the range of about 34.5 grams to 35.5 grams.

Claim 4 (original) The golf ball of claim 1 wherein the has a compression in the range of about 60 PGA to about 80 PGA.

Claim 5 (original) The golf ball of claim 1 wherein the core has a diameter in the range of about 1.555 inches to about 1.575 inches.

Claim 6 (original) The golf ball of claim 1 wherein the cover comprises a blend ~~of about 75% by weight~~ of a high resilience ionomer and ~~about 25% by weight~~ of a very low modulus ionomer, ~~wherein the high resilience ionomer is a copolymer of approximately 81% of an olefin with about 19% of an alpha, beta ethylenically unsaturated carboxylic acid, where acid groups of the high resilience ionomer are neutralized with a sodium ion,~~ and wherein the very low

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Restriction of Jan. 5, 2004

modulus ionomer is a terpolymer of ~~67-70% by weight of~~
ethylene, ~~20-21% by weight of~~ n-butyl acrylate, and ~~12% by~~
~~weight of methacrylic acid, where acid groups of the very~~
~~low modulus ionomer are neutralized by a zinc ion.~~

Claim 7. (original) The golf ball of claim 1 wherein the
cover has a thickness of in the range of about 0.052 inches
to about 0.063 inches.

Claim 8. (original) The golf ball of claim 1 wherein the
outer surface comprises a plurality of dimples arranged on
the outer surface to form a dimple pattern, the plurality
of dimples including

a first set of dimples, with each dimple in the first
set having a single radius cross section;

a second set of dimples, with each dimple in the
second set having a dual radius cross section; and

a third set of dimples, with each dimple in the third
set having a single radius cross section.

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Restriction of Jan. 5, 2004

Claim 9 (currently amended) The golf ball of claim 8
wherein

the dimples in the first set of dimples have a
diameter in the range of 0.150 inches to 0.160 inches ~~of~~
~~0.156 inches and a major radius of 0.4148 inches;~~

the dimples in the second set of dimples have a
diameter in the range of 0.140 inches to 0.150 inches ~~of~~
~~0.145 inches, a major radius of 0.7874 inches, and a minor~~
~~radius of 0.1181 inches; and~~

the dimples in the third set of dimples have a
diameter in the range of 0.135 inches to 0.145 inches ~~of~~
~~0.140 inches and a major radius of 0.3535 inches.~~

Claim 10 (currently amended) The golf ball of claim 8
wherein

the dimples in the first set of dimples have a
~~diameter in the range of 0.150 inches to 0.160 inches, and~~
a major radius in the range of 0.34 inches to 0.80 inches;

the dimples in the second set of dimples have a
~~diameter in the range of 0.140 inches to 0.150 inches, a~~
major radius in the range of 0.41 inches to 0.80 inches;
and a minor radius in the range of 0.10 inches to 0.12
inches; and

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Restriction of Jan. 5, 2004

the dimples in the third set of dimples have a
~~diameter in the range of 0.135 inches to 0.145 inches, and~~
a major radius in the range of 0.34 inches to 0.80 inches.

Claim 11 (original) The golf ball of claim 8 wherein the outer surface is divided into a plurality of polygonal configurations which includes pentagons, squares and triangles, wherein a first pattern of dimples is associated with each pentagon, a second pattern of dimples is associated with each square, and a third pattern of dimples is associated with each triangle.

Claim 12 (original) The golf ball of claim 8 wherein the dimples in the first set of dimples have a different size than the dimples in the third set of dimples.

Claim 13 (original) The golf ball of claim 8 wherein the outer surface is divided into a polyhedron defined as a rhombicosadodecahedron and dimples are arranged using that pattern.

Claim 14 (original) The golf ball of claim 8 wherein the total number of dimples is at least 402.

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Restriction of Jan. 5, 2004

Claims 15-25 (canceled)

Claim 26 (new) A three-piece golf ball comprising:

a core comprising a center and a thread layer wound in an open winding pattern, wherein said center has a compression in the range of about 60 PGA to 80 PGA;

an ionomer cover blend having a Shore D hardness in the range of about 63 Shore D to about 69 Shore D; and

a plurality of dimples arranged on the outer surface, with a first pattern of dimples associated with each pentagon, a second pattern of dimples associated with each square, and a third pattern of dimples associated with each triangle.

Claim 27 (new) The golf ball of claim 26 wherein the blend further comprises:

a high modulus ionomer;
a low modulus ionomer; and,
a terpolymer.

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Restriction of Jan. 5, 2004

Claim 28 (new) The golf ball of claim 27 wherein the
dimples in the first set of dimples have a diameter in the
range of 0.150 inches to 0.160 inches;

the dimples in the second set of dimples have a
diameter in the range of 0.140 inches to 0.150 inches; and

the dimples in the third set of dimples have a
diameter in the range of 0.135 inches to 0.145 inches.

Claim 29 (new) The golf ball of claim 27 wherein the
dimples in the first set of dimples have a major radius in
the range of 0.34 inches to 0.80 inches;

the dimples in the second set of dimples have a major
radius in the range of 0.41 inches to 0.80 inches; and a
minor radius in the range of 0.10 inches to 0.12 inches;
and

the dimples in the third set of dimples have a major
radius in the range of 0.34 inches to 0.80 inches.

Claim 30 (new) A three-piece golf ball comprising:

a core comprising a center and a layer having a weight
in the range of about 27.5 grams to 28.5 grams, and wherein

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Restriction of Jan. 5, 2004

said thread windings layer has an unstressed thread
dimension of about 0.020 inches to 0.028 inches;

a cover having a Shore D hardness in the range of
about 63 Shore D to about 69 Shore D; and

a plurality of dimples arranged on the outer surface,
with a first pattern of dimples associated with each
pentagon, a second pattern of dimples associated with each
square, and a third pattern of dimples associated with each
triangle.

Claim 31 (original) The golf ball of claim 30 wherein the
outer surface is divided into a polyhedron defined as a
rhombicosadodecahedron and dimples are arranged using that
pattern.

Claim 32 (new) The golf ball of claim 30 wherein the thread
has a 500% modulus between 220 to 280 p.s.i.

Claim 33 (new) The golf ball of claim 30 wherein the
dimples in the first set of dimples have a diameter in the
range of 0.150 inches to 0.160 inches;

the dimples in the second set of dimples have a
diameter in the range of 0.140 inches to 0.150 inches; and

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Restriction of Jan. 5, 2004

the dimples in the third set of dimples have a diameter in the range of 0.135 inches to 0.145 inches.

Claim 34 (new) The golf ball of claim 30 wherein the dimples in the first set of dimples have a major radius in the range of 0.34 inches to 0.80 inches;

the dimples in the second set of dimples have a major radius in the range of 0.41 inches to 0.80 inches; and a minor radius in the range of 0.10 inches to 0.12 inches; and

the dimples in the third set of dimples have a major radius in the range of 0.34 inches to 0.80 inches.

Claim 35 (original) The golf ball of claim 30 wherein the outer surface is divided into a polyhedron defined as a rhombicosadodecahedron and dimples are arranged using that pattern.